

IN THE CLAIMS

The following is a complete listing of all claims to be examined.

1. (Currently Amended) A method to facilitate reconfiguring electrical battery power delivered to a motor for a radio controlled model ~~reconfigure radio controlled r/c model vehicle battery systems using standard r/c connectors to mate with the standard connectors attached to ESC and motor devices comprised to accept different number of battery cells in serial and parallel wiring configurations, comprising:~~

providing a first group of battery cells, wherein the battery cells in the first group are connected via permanent electrical connection, and wherein the battery cells in the first group are securely held together;

providing a second group of battery cells, wherein the battery cells in the second group are connected via permanent electrical connection, and wherein the battery cells in the second group are securely held together;

providing a first standard electrical connector that removably electrically couples the first group of battery cells to the second group of battery cells; and

providing a second standard electrical connector that removably electrically couples the second group of battery cells to an electronic speed controller, wherein the electronic speed controller is electrically coupled to the motor.

2. (Currently amended) The ~~[[A]] method of based on claim 1 using different standard connectors for the various battery subsystems so that different models can share the same battery~~

~~subsystems even though each model has different standard connectors wherein the first and the second standard connectors are different standard types.~~

3. (Currently Amended) ~~The [[A]] method of based on claim 1 permitting individual cells in a battery subsystem to be discharged and/or recharged through an electrical interface connected to a battery charging system~~ further comprising:

providing a first wire directly coupled to a first terminal of a particular battery cell in the first group of battery cells; and
providing a second wire directly coupled to a second terminal of the particular battery cell;
wherein the first and the second wires conduct an electrical current from a battery charger so as to perform an electrical charging operation on the particular battery cell.

4. (Currently Amended) ~~The [[A]] method of based on claim 1 using an electronic switch located on or inside a battery subsystem to allow individual or groups of battery cells to be discharged and/or recharged based on electronic control signals that emanate from a control system connected to the battery charging system~~ further comprising:

providing a first integrated circuit; and
providing a second integrated circuit coupled to the first integrated circuit via a control line;
wherein a first control signal transmitted from the first integrated circuit via the control line to the second integrated circuit controls the charging operation on the particular battery cell.

5-8. (Cancelled)

9. (New) A reconfigurable radio control model battery system comprising:

a first group of battery cells, wherein the battery cells in the first group are connected via permanent electrical connection, and wherein the battery cells in the first group are securely held together;

a second group of battery cells, wherein the battery cells in the second group are connected via permanent electrical connection, and wherein the battery cells in the second group are securely held together;

wherein the first group of battery cells is removably electrically coupled via a first standard connector to the second group of battery cells, and wherein the second group of battery cells is removably electrically coupled via a second standard connector to an electronic speed controller for a radio controlled model motor.

10. (New) The system of claim 9, wherein the first and the second standard connectors are different standard types.

11. (New) The system of claim 9, further comprising:

a first wire directly coupled to a first terminal of a particular battery cell in the first group of battery cells; and

a second wire directly coupled to a second terminal of the particular battery cell;

wherein the first and the second wires conduct an electrical current from a battery charger so as to perform an electrical charging operation on the particular battery cell.

12. (New) The system of claim 11, wherein the charging operation comprises discharging the particular battery cell.

13. (New) The system of claim 11, further comprising:

a first integrated circuit; and

a second integrated circuit coupled to the first integrated circuit via a control line;

wherein a first control signal transmitted from the first integrated circuit via the control line to the second integrated circuit controls the charging operation on the particular battery cell.

14. (New) The system of claim 13, wherein a second control signal transmitted from the first integrated circuit via the control line to the second integrated circuit controls a charging operation for a second particular battery cell in the first group of battery cells.

15. (New) The system of claim 13, wherein the second integrated circuit is positioned inside the first group of battery cells.

16. (New) A reconfigurable radio control model battery system comprising:

a first group of battery cells, wherein cells in the first group are connected via permanent electrical connection, and wherein the first group of battery cells are securely held together;

a second group of battery cells, wherein cells in the second group are connected via permanent electrical connection, and wherein the second group of battery cells are securely held together;

wherein the first group of battery cells is removably coupled via a first standard connector to an electronic speed controller for a radio controlled model motor, and wherein the second group of battery cells is removably coupled via a second standard connector to the electronic speed controller.

17. (New) The system of claim 16, wherein the first and the second standard connectors are different standard types.

18. (New) The system of claim 16, further comprising:

a first wire directly coupled to a first terminal of a particular battery cell in the first group of battery cells;

a second wire directly coupled to a second terminal of the particular battery cell;

wherein the first and the second wires conduct an electrical current from a battery charger so as to perform an electrical charging operation on the particular battery cell.

19. (New) The system of claim 18, wherein the charging operation comprises discharging the particular battery cell.

20. (New) The system of claim 18, further comprising:

a first integrated circuit; and

a second integrated circuit coupled to the first integrated circuit via a control line;
wherein a first control signal transmitted from the first integrated circuit via the control line
to the second integrated circuit controls the charging operation on the particular battery
cell.

21. (New) The system of claim 20, wherein a second control signal transmitted from the first
integrated circuit via the control line to the second integrated circuit controls a charging
operation for a second particular battery cell in the first group of battery cells.

22. (New) The system of claim 20, wherein the second integrated circuit is positioned inside the
first group of battery cells.

23. (New) The method of claim 1, further comprising:

using the first standard electrical connector to removably electrically couple the first group of
battery cells to the second group of battery cells; and
using the second standard electrical connector to removably electrically couple the second
group of battery cells to the electronic speed controller.

24. (New) The method of claim 23, further comprising:

decoupling the first group of battery cells from the second group of battery cells;
decoupling the second group of battery cells from the electronic speed controller; and
using the first and the second standard electrical connectors to directly couple the first group
of battery cells to the electronic speed controller.